

ABSTRACT OF THE DISCLOSURE

A wavelength stabilization control device for controlling a light-wave output by a tunable component in an optical communication system, including a beam splitting component, a first photo-detecting component, a second photo-detecting component, a 5 Fabry-Perot Etalon and an optical filtering component. The beam splitting component splits the light-wave into a first light-wave and a second light-wave. The first photo-detecting component receives the first light-wave and transforms the first light-wave into a first electric signal. The second photo-detecting component receives the second light-wave and transforms the second light-wave into a second electric signal. The Fabry-Perot Etalon is 10 provided between the beam splitting component and the second photo-detecting component for separating a light-wave including a specific wavelength from the second light-wave. The optical filtering component is provided between the Fabry-Perot Etalon and the second photo-detecting component for filtering a part of channels out from the light-wave including the specific wavelength.